IN THE CLAIMS

Please amend the claims as follows:

1. (Original) A voice over Internet (VOIP) system, comprising:

at least one infrastructure component communicating with one or more wireless devices using a wireless device over-the-air protocol different from Internet protocol (IP), the infrastructure component including:

at least one logic component facilitating communication between a target wireless device and a communication device, the target wireless device not supporting IP, the logic component undertaking method acts including:

transforming information in IP protocol to wireless device protocol;

sending the information in wireless device protocol to the target wireless device;

transforming information in wireless device protocol from the target wireless device to IP protocol; and

sending the information in IP protocol toward the communication device.

- 2. (Original) The system of Claim 1, wherein the wireless device protocol is a code division multiple access (CDMA) air interface protocol.
- 3. (Original) The system of Claim 1, wherein the infrastructure component is a base station (BTS).
- 4. (Original) The system of Claim 1, wherein the infrastructure component is a base station controller (BSC).
- 5. (Original) The system of Claim 1, wherein the wireless device protocol is an over-the-air (OTA) voice protocol.
- 6. (Original) The system of Claim 1, wherein the logic component converts OTA protocol packets to IP packets.

- 7. (Original) The system of Claim 1, wherein the logic component converts IP packets to OTA protocol packets.
- 8. (Original) The system of Claim 6, wherein the logic component converts IP packets to OTA protocol packets.
- 9. (Original) The system of Claim 5, wherein the wireless device protocol is a spread spectrum protocol.
- 10. (Original) The system of Claim 6, wherein an OTA protocol voice packet has a size less than the size of an IP packet.
- 11. (Original) A method for communicating information in IP to a wireless device not supporting IP, comprising: transforming the information in IP to an over-the-air (OTA) protocol; and transmitting the information in OTA protocol to the wireless device.
- 12. (Original) The method of Claim 11, further comprising: transforming information in OTA protocol from the wireless device to IP; and sending the information in IP toward a communication device.
- 13. (Original) The method of Claim 12, further comprising associating the wireless device with an IP address based at least in part on a location of the wireless device.
- 14. (Original) The method of Claim 13, wherein the method is undertaken by a communication system infrastructure component.
- 15. (Original) The method of Claim 14, wherein the infrastructure component is a base station (BTS).

- 16. (Original) The method of Claim 14, wherein the infrastructure component is a base station controller (BSC).
- 17. (Original) The method of Claim 11, wherein the OTA protocol is a CDMA protocol.
- 18. (Original) The method of Claim 12, comprising converting OTA protocol packets to IP packets.
- 19. (Original) The method of Claim 12, comprising converting IP packets to OTA protocol packets.
- 20. (Original) The method of Claim 11, wherein the OTA protocol is a CDMA voice protocol.
- 21. (Original) The method of Claim 11, wherein an OTA protocol voice packet has a size less than the size of an IP packet.
 - 22. (Original) A computer program device, comprising:

means for converting information in IP from a communication system infrastructure to information in over-the-air (OTA) protocol packets to render first converted packets;

means for converting information in OTA protocol packets from a wireless device to IP packets to render second converted packets; and

means for providing communication between the wireless device and the infrastructure using the first and second converted packets.

- 23. (Original) The device of Claim 22, wherein a first converted packet has a size smaller than a second converted packet.
- 24. (Original) The device of Claim 23, wherein a first converted packet has a size smaller than a header of a second converted packet.

- 25. (Original) The device of Claim 22, wherein the OTA protocol is a CDMA protocol.
- 26. (Original) The device of Claim 22, wherein the logic means are executed by an infrastructure component.
- 27. (Original) The device of Claim 26, wherein the component is a base station or a base station controller.
 - 28. (Original) The device of Claim 22, further comprising:

means for associating the wireless device with an IP address based at least in part on a location of the wireless device.

29. (Original) The device of Claim 22, wherein the OTA protocol is a CDMA protocol.

Claims 30-38. (Cancelled)

Claims 39-59. (Previously Cancelled)

Claims 60-68 (Cancelled)

- 69. (New) The system of Claim 1, wherein the infrastructure component is a gateway for a satellite communication system.
- 70. (New) The system of Claim 5, wherein the wireless device protocol is a protocol selected from the group of protocols consisting of: CDMA, WCDMA, TDMA, TD-SCDMA, UMTS.

- 71. (New) The method of Claim 14, wherein the infrastructure component is a gateway for a satellite communication system.
- 72. (New) The method of Claim 11, wherein the wireless device protocol is a protocol selected from the group of protocols consisting of: CDMA, WCDMA, TDMA, TD-SCDMA, UMTS.
- 73. (New) The system of Claim 1, wherein the information represents digitized voice, or digital data, or digitized image data.
- 74. (New) A voice over Internet (VOIP) system, comprising: at least one infrastructure component communicating with one or more wireless devices using a wireless device over-the-air protocol different from Internet protocol (IP); and at least one wireless communication device communicating with the infrastructure, the wireless communication device not supporting IP.
- 75. (New) The VOIP system of Claim 74, wherein the wireless device is a target wireless device, and the infrastructure component includes: at least one logic component facilitating communication between the target wireless device and another communication device, the target wireless device not supporting IP, the logic component undertaking method acts including:

transforming information in IP protocol to wireless device protocol;

sending the information in wireless device protocol to the target wireless device;

transforming information in wireless device protocol from the target wireless device to IP protocol; and

sending the information in IP protocol toward the other communication device.

76. (New) The system of Claim 73, wherein the wireless device protocol is a code division multiple access (CDMA) air interface protocol.

- 77. (New) The system of Claim 73, wherein the infrastructure component is a base station (BTS).
- 78. (New) The system of Claim 73, wherein the infrastructure component is a base station controller (BSC).
- 79. (New) The system of Claim 73, wherein the infrastructure component is a gateway for a satellite communication system.
- 80. (New) The system of Claim 73, wherein the wireless device protocol is an over-the-air (OTA) voice protocol.
- 81. (New) The system of Claim 73, wherein the logic component converts OTA protocol packets to IP packets.
- 82. (New) The system of Claim 73, wherein the logic component converts IP packets to OTA protocol packets.
- 83. (New) The system of Claim 79, wherein the logic component converts IP packets to OTA protocol packets.
- 84. (New) The system of Claim 78, wherein the wireless device protocol is a spread spectrum protocol.
- 85. (New) The system of Claim 79, wherein an OTA protocol voice packet has a size less than the size of an IP packet.
- 86. (New) The system of Claim 84, wherein the infrastructure component is part of a communications infrastructure undertaking no devocoding.

- 87. (New) The method of Claim 11, wherein the wireless device is a first wireless device and the first wireless device communicates with a second wireless device in a call, and the method includes not undertaking tandem vocoding in the call.
- 88. (New) The system of Claim 30, wherein the infrastructure communicates information from one infrastructure endpoint to another infrastructure endpoint in a call between two wireless devices without vocoding or devocoding the information.